

09/502216 ART 34 AMDT

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We claim:

1. An aqueous composition comprising a mixture of
from 10 to 50% by weight of a polymer A) having a gel content
of less than 40% by weight and a number-
average molecular weight M_n of the
soluble fractions of less than 30,000
and which comprises from 60 to 100% by
weight, based on the polymer, of C_1 - to
 C_{20} -alkyl (meth)acrylates and mixtures
thereof and
from 50 to 90% by weight of a filler B), the amounts by
weight being based on the weight sum of
the polymer A) and of the filler B).
2. An aqueous composition as claimed in claim 1, where the
proportion by weight of the polymer is from 10 to 45% by
weight and that of the filler is from 55 to 90% by weight.
3. An aqueous composition as claimed in claim 1 or 2, where the
polymer is present in the form of an aqueous dispersion with
a concentration of from 40 to 75%.
4. An aqueous composition as claimed in ~~any of claims 1 to 3~~,
where the content of volatile organic constituents - that is,
organic compounds having a boiling point at 1 bar of less
than 300°C - is less than 0.5% by weight, based on the
aqueous composition.
5. An aqueous composition as claimed in ~~any of claims 1 to 4~~,
where the glass transition temperature of the polymer A) is
from -50°C to +20°C.
6. The use of an aqueous composition as claimed in ~~any of claims 1 to 5~~ as an adhesive.
7. The use of an aqueous composition as claimed in ~~any of claims 1 to 5~~ as a flooring adhesive.

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8. A substrate coated with an aqueous composition as claimed in
~~any of claims 1 to 6.~~

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Add B1

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We claim:

1. An aqueous composition comprising a mixture of
5 from 10 to 50% by weight of a polymer A) having a gel content of less than 40% by weight and a number-average molecular weight M_n of the soluble fractions of less than 30,000
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from 50 to 90% by weight of a filler B), the amounts by weight being based on the weight sum of the polymer A) and of the filler B).
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2. An aqueous composition as claimed in claim 1, where the proportion by weight of the polymer is from 10 to 45% by weight and that of the filler is from 55 to 90% by weight.
- 20 3. An aqueous composition as claimed in claim 1 or 2, where the polymer is present in the form of an aqueous dispersion with a concentration of from 40 to 75%.
4. An aqueous composition as claimed in any of claims 1 to 3,
25 where the content of volatile organic constituents - that is, organic compounds having a boiling point at 1 bar of less than 300°C - is less than 0.5% by weight, based on the aqueous composition.
- 30 5. An aqueous composition as claimed in any of claims 1 to 4, where the polymer A) consists to the extent of from 60 to 100% by weight of principal monomers selected from C_1 - C_{20} -alkyl (meth)acrylates, vinyl esters of carboxylic acids containing up to 20 carbon atoms, vinylaromatic compounds
35 having up to 20 carbon atoms, ethylenically unsaturated nitriles, vinyl halides, nonaromatic hydrocarbons having at least 2 conjugated double bonds, or mixtures of these monomers.
- 40 6. An aqueous composition as claimed in any of claims 1 to 5, where the glass transition temperature of the polymer A) is from -50°C to +20°C.
7. The use of an aqueous composition as claimed in any of claims
45 1 to 6 as an adhesive.

8. The use of an aqueous composition as claimed in any of claims 1 to 6 as a flooring adhesive.

5 9. A substrate coated with an aqueous composition as claimed in any of claims 1 to 6.

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